

# PROJECTING SYSTEM WITH AN IMAGE-CAPTURING DEVICE

## Abstract

A projecting system for projecting an image onto a screen includes a projector and an image-capturing device. The projector includes a light source, a beam splitter for splitting a beam generated by the light source into a visible beam and an invisible beam, a first image-forming device for modulating the invisible beam to form a first image, a second image-forming device for modulating the visible beam to form a second image, and a prism for projecting the first image and the second image onto the screen. The image-capturing device includes an output unit for outputting a first part of the first image at a first time and a second part of the first image at a second time, and a data processor for receiving data from the output unit and changing the position of the cursor according to the first and the second part of the first image.